



A.D. 1867, 9th OCTOBER. N^o 2836.

S P E C I F I C A T I O N

OF

JOHN BARKER.

CONSUMING SMOKE IN FURNACES.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,
25, SOUTHAMPTON BUILDINGS, HOLBORN.

Price 4d.

1868.



A.D. 1867, 9th OCTOBER. N° 2836.

Consuming Smoke in Furnaces.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by John Barker at the Office of the Commissioners of Patents, with his Petition, on the 9th October 1867.

I, JOHN BARKER, of Todmorden, in the County of York, do hereby declare
5 the nature of the said Invention for “CERTAIN IMPROVEMENTS IN THE METHOD
OF CONSUMING SMOKE, AND IN APPARATUS CONNECTED THEREWITH,” to be as
follows :—

My Invention is designed for consuming the gaseous and carbonaceous
portions of smoke emanating from the fuel used in furnaces. The improvements
10 consist in the application of jets or flames of gas or other equivalent to ignite
the gas which is abundantly contained in the smoke after it has passed along
the flue and is passing to the chimney, for which purpose I apply one or more
gas supply pipes in the space behind the flue or in the flues if desired, and
provide burners in such pipes in such a position that the draught from the
15 furnace will not extinguish them, which is accomplished by placing them in
the opposite side of the pipe to the draught, so that the back part of the pipe
protects the gas flames. When gas is admitted to these tubes and ignited
such gas flames are surrounded by the gas and smoke from the furnace, and
the said gas becomes ignited by the jets, and the combustion extends and is
20 maintained the whole length of the flue, which also consumes the carbon in
the smoke.

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1868.

